PROJECT DESCRIPTION

I. GENERAL

This project involves the modification to the existing traffic control signal at the intersection of US 50 (Ocean Gateway) and Chapel Road in Talbot County, Maryland.
US 50 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection operates in a NEMA six (6) phase, full-traffic-actuated mode. There is a exclusive/permissive left turn phase for both the east and westbound movements of US 50.
The US 50 through movements operate concurrently.
The Chapel Road movements operate concurrently.

The existing cabinet/controller/phasing/loop detectors will be utilized.

EQUIPMENT LIST

A. S.H.A. furnished equipment material.

None.

B. Equipment to be furnished and installed by the Contractor.
All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
1	EA	818	12 in. x 30 ft. steel strain pole.
4	EA	814	12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
1	EA	814	12 in., one-way, five section (R,Y,YA,G,GA) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
1	EA	814	12 in./8 in., one-way, five section (12 in. YA, GA/ 8 in. R,Y,G) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
1	EA	813	30 in. x 36 in. R3-5(R) sign - span wire mount.
1	CY	205	Test pit excavation.
2	EA	811	Handhole.
225	LF	815	Sawcut for signal loop detector.
875	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
600	LF	810	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
75	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
1100	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
15	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
350	LF	819	3/8 in. steel span wire.
10	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
15	LF	805	2 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
15	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
3	CY	801	Concrete foundation for traffic signal equipment.
1	EA	804	Ground rod - 3/4 in. diameter x 10 ft. length.
2	EA	810	Loop detector splice.
2	EA	---	Temporary back guy.
2	EA	---	Relocate overhead mounted sign.
1	EA	---	Remove and dispose of existing concrete foundation 12 inches below grade.
Lump Sum	LS	---	Pull back and re-run existing cable.
Lump Sum	LS	---	Remove and dispose of existing signal equipment.
Lump Sum	LS	---	As-built for S.H.A. [on CADD].

CONTACT LIST

The contact persons for District #2 are as follows:

Mr. Robert Kiel
Assistant District Engineer - Traffic
410-778-3061

Mr. Barry Clothier
Assistant District Engineer - Utility
410-778-3061

Mr. Terry O. Wright
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410-778-3061

Mr. Richard L. Daff
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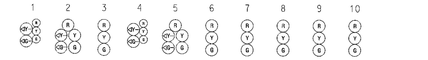
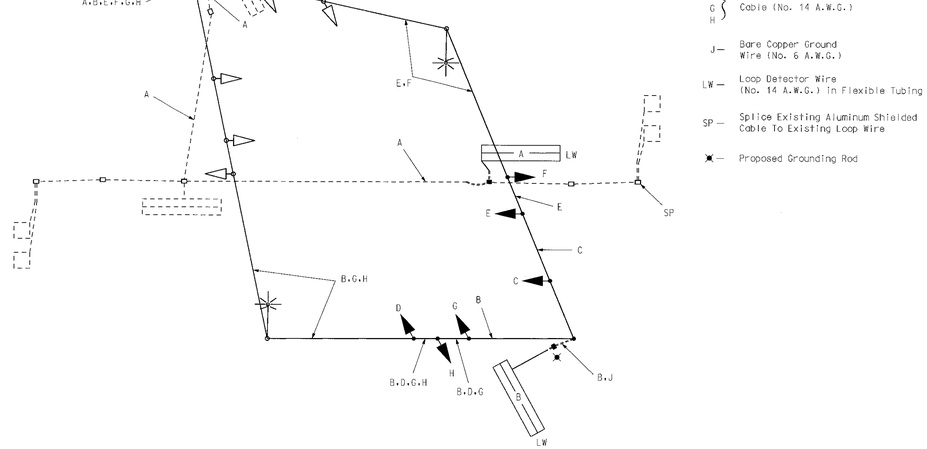
410-787-7830

Phase Chart



	1	2	3	4	5	6	7	8	9	10	
Phase 1 & 5	R ◄G	R ◄G	R	R ◄G	R ◄G	R	R	R	R	R	
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6											
Phase 1 & 6	G ◄G	G ◄G	G	R	R	R	R	R	R	R	
1 Change	G ◄Y	G ◄Y	G	R	R	R	R	R	R	R	
Phase 2 & 5	R	R	R	G ◄G	G ◄G	G	R	R	R	R	
5 Change	R	R	R	G ◄Y	G ◄Y	G	R	R	R	R	
Phase 2 & 6	G	G	G	G	G	G	R	R	R	R	
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	R	
Phase 4 & 8	R	R	R	R	R	R	G	G	G	G	
4 & 8 Change	R	R	R	R	R	R	Y	Y	Y	Y	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	

Wiring Diagram



A, B } 2-Conductor Cable (Aluminum Shielded)

C, D } 5-Conductor Electrical Cable (No. 14 A.W.G.)

E, F, G, H } 7-Conductor Electrical Cable (No. 14 A.W.G.)

J — Bare Copper Ground Wire (No. 6 A.W.G.)

LW — Loop Detector Wire (No. 14 A.W.G.) in Flexible Tubing

SP — Splice Existing Aluminum Shielded Cable To Existing Loop Wire

Proposed Grounding Rod

Revision " C "

The Traffic Group
The Traffic Group, Inc.
410-931-6600
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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(General Information Plan)
US 50 (Ocean Gateway) and Chapel Road
Easton, Maryland

DRAWN BY:	J. Dirndorfer	F.A.P. NO.	N/A	TS NO.	1949 C-61
CHECKED BY:		S.H.A. NO.	BW996M82		
SCALE:	N/A	COUNTY:	Talbot	T.I.M.S. NO.	G626
DATE:	September 15, 2004	LOG MILE:	20005010.17	SHEET NO.	2 OF 2

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